SA-W441/W442/W541/W542

SERVICE MANUAL

US Model
SA-W441/W442/W541/W542

Canadian Model
SA-W542

AEP Model
SA-W542

E Model
SA-W542

Mexican Model
SA-W441/W542

Discard SA-W441/W442/W541/W542 Service Manual (No. 9-959-324-11, -91) previously issued. This Service Manual contains it.

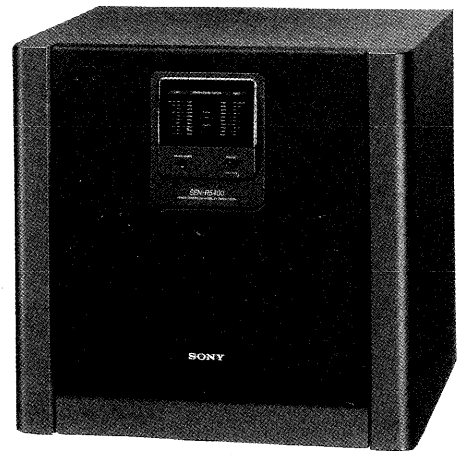

Photo: SA-W541

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS (Except AEP model)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:
With 8-ohm loads, both channels driven, from 70 - 20,000 Hz; rated 100 watts per channel minimum RMS power, with less than 0.9% total harmonic distortion from 250 milliwatts to rated output.

Amplifier section

Overall output
SA-W441/W442: 120 W + 120 W (US model)
80 W + 80 W (Mexican model)
(front, at 1 kHz, 8 ohms)
40 W (super woofer, at 40 Hz, 4 ohms)
SA-W541/W542: 120 W + 120 W (US, Canadian, E model)
80 W + 80 W (AEP, Mexican model)
(front, at rear/center off at 1 kHz, 8 ohms)
20 W + 20 W (rear, at center off at 1 kHz, 8 ohms)
40 W (center, at rear off at 1 kHz, 6 ohms)
40 W (super woofer, at rear/center off at 40 Hz 4 ohms) (Except AEP model)
30 W (super woofer, at rear/center off at 40 Hz 4 ohms) (AEP model)

Harmonic distortion
SA-W441/W442: Less than 0.9 % (at 1 kHz, 8 ohms loads, front: 120 W + 120 W, super woofer off)
SA-W541/W542 (Except AEP model):
Less than 0.9 % (at 1 kHz, 8 ohms loads, front: 120 W + 120 W, rear/center/ super woofer off)

Output
FRONT SPEAKERS:
Accept speakers of 8 – 16 ohms
REAR SPEAKERS:
(SA-W541/W542)
Accept speakers of 8 – 16 ohms
CENTER SPEAKER:
(SA-W541/W542)
Accept speaker of 6 – 16 ohms
HEADPHONES:
Accepts low and high impedance Headphones

Speaker section

Type: Active super woofer (magnetically shielded design)
Speaker unit: Woofer: 20 cm (8 inches) cone type
Reproduction frequency range
25 Hz to 150 Hz

General

Power requirements
120 V AC, 60 Hz (Except AEP model)
220 – 230 V AC, 50/60 Hz (AEP model)
Power consumption
SA-W441/W442: 230 W (US model)
200 W (Mexican model)
SA-W541/W542: 280 W (US model)
380 VA (Canadian model)
310 W (E model)
250 W (AEP, Mexican models)

— Continued on next page —

Active Super Woofer

SONY

Dimensions	Approx. 500 x 475 x 475 mm (w/h/d) (19 3/4 x 18 3/4 x 18 3/4 inches) (including projecting parts and controls)
Mass	
SA-W441/W442:	Approx. 30.3 kg (66 lb 13 oz)
SA-W541/W542:	Approx. 31.0 kg (68 lb 6 oz)

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

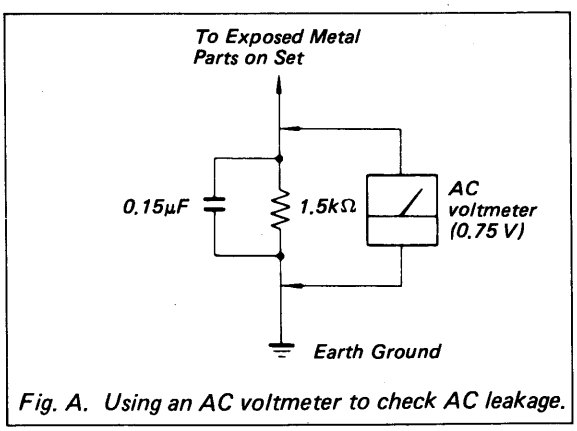

Fig. A. Using an AC voltmeter to check AC leakage.

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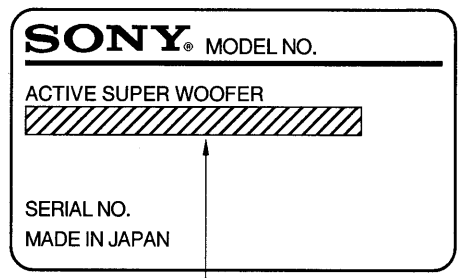
MODEL IDENTIFICATION



SA-W441, W442 (US model) : AC 120V 60Hz 230W
SA-W441 (Mexican model) : AC 120V 60Hz 200W
SA-W541, W542 (US model) : AC 120V 60Hz 280W
SA-W542 (Canadian model) : AC 120V 60Hz 380VA
SA-W542 (Mexican model) : AC 120V 60Hz 250W
SA-W542 (E model) : AC 220 — 240V ~50/60Hz 310W
SA-W542 (AEP model) : AC 220 — 230V ~50/60Hz 250W

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

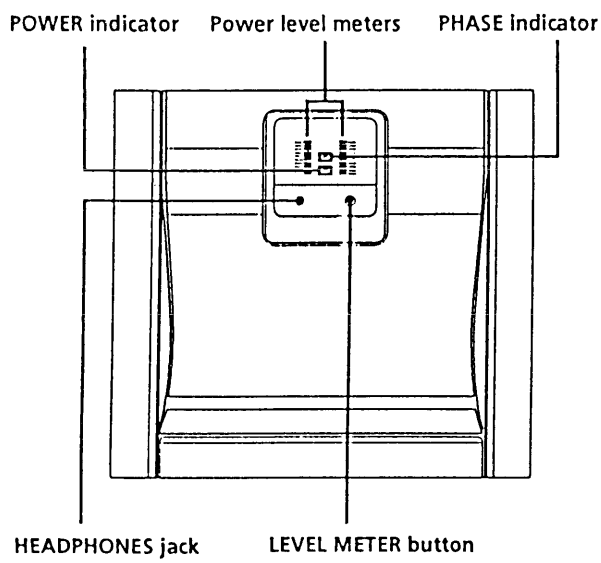
ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

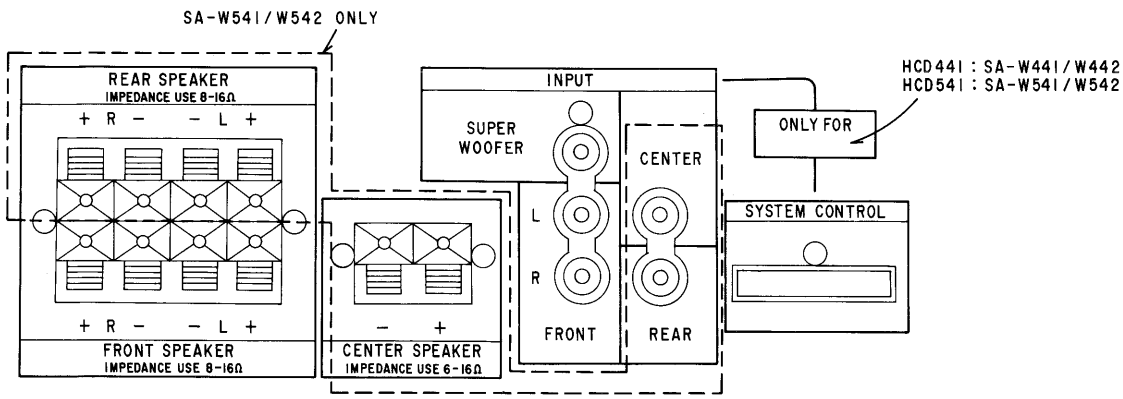
LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1
GENERAL

This section is extracted from instruction manual.

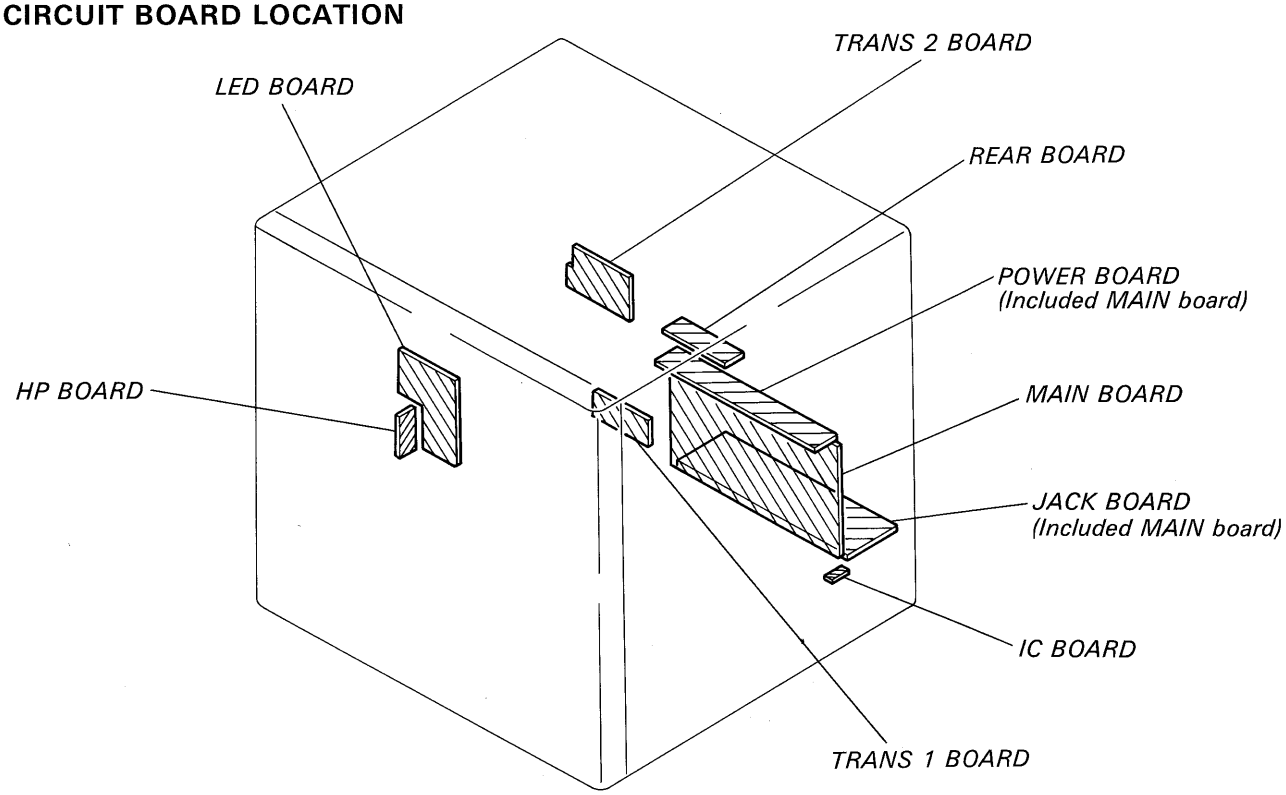
[LOCATION OF CONTROLS]





SECTION 2
DIAGRAMS

2-1. CIRCUIT BOARD LOCATION



2-2. SEMICONDUCTOR LEAD LAYOUTS

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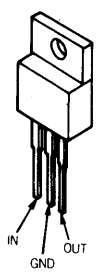

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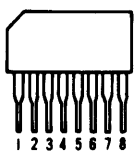
M5230L-A
μPC1237HA



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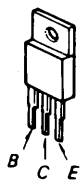
2SD2012



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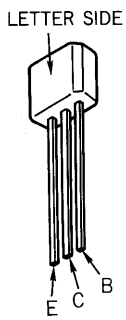

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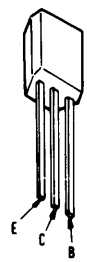
DTC124ES



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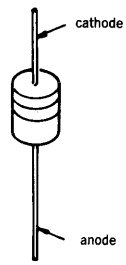

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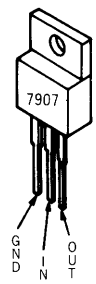

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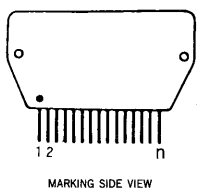

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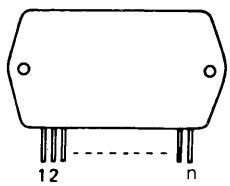

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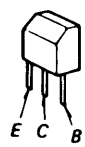

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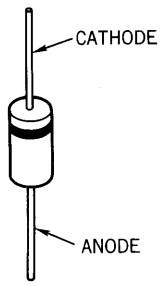
UZP-6.2B



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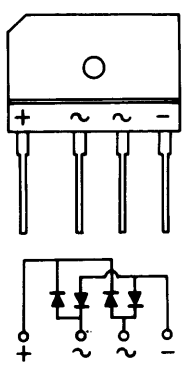


2-3. PRINTED WIRING BOARDS (Former Type)

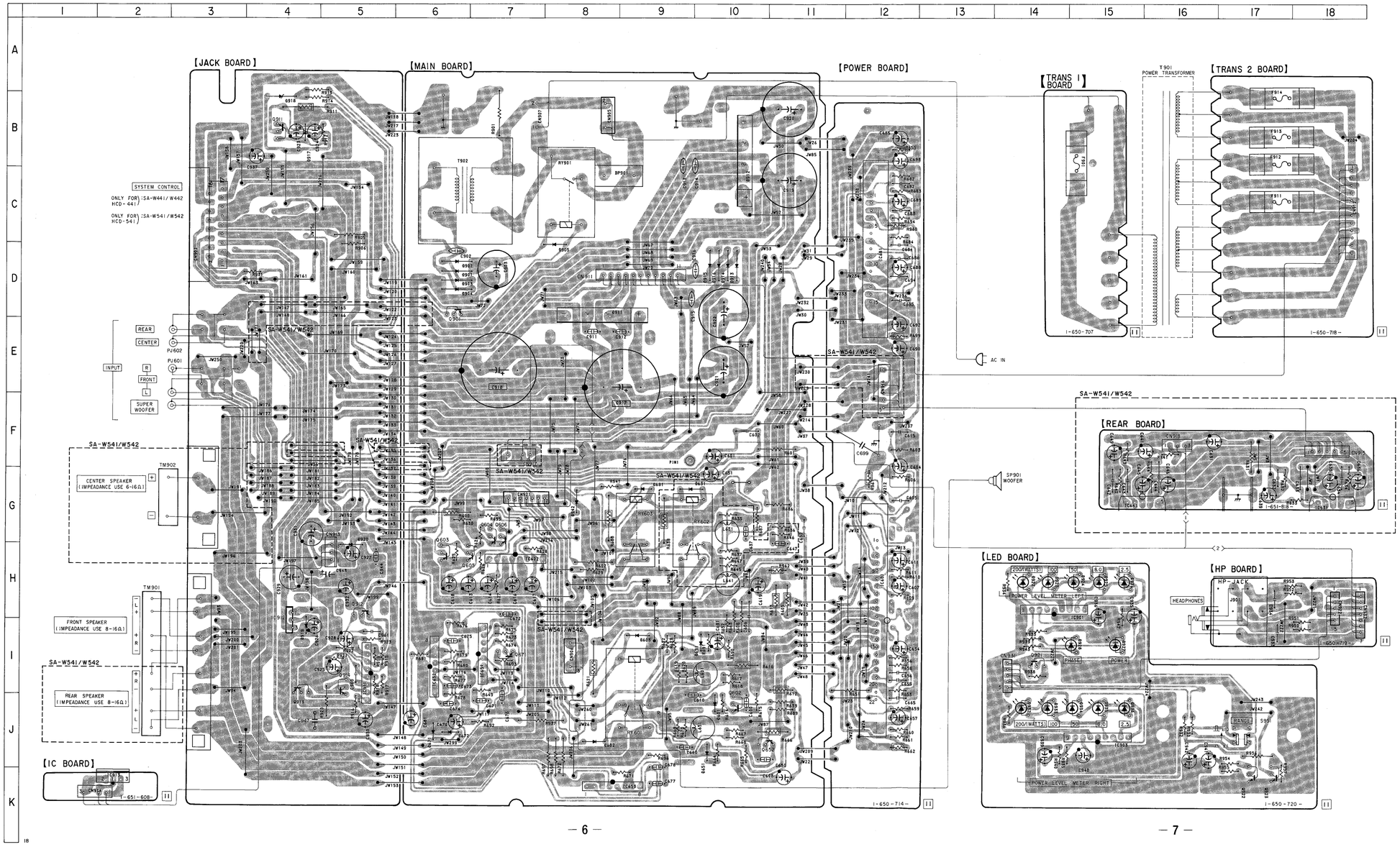
● **See page 4 for Circuit Boards Location and Semiconductor Lead Layouts.**

• **Semiconductor location**

Ref. No.	Location	Ref. No.	Location
D601	J - 10	D935	J - 15
D602	J - 8	D936	J - 15
D603	I - 9	D942	G - 8
D631	G - 9		
D651	J - 10	IC601	H - 12
D671	J - 6	IC602	H - 7
D672	J - 6	IC631	G - 18
D681	G - 9	IC641	G - 15
D691	I - 10	IC651	H - 7
D901	D - 6	IC652	I - 6
D902	D - 6	IC653	K - 9
D903	D - 6	IC681	C - 12
D904	D - 6	IC901	H - 14
D905	D - 8	IC903	J - 15
D911	E - 8	IC911	H - 5
D912	C - 10	IC912	I - 4
D913	D - 10	IC913	K - 1
D914	D - 10		
D915	D - 10	Q602	J - 10
D916	D - 10	Q603	H - 6
D917	B - 4	Q604	G - 7
D918	B - 4	Q605	H - 6
D919	I - 4	Q606	G - 7
D920	H - 5	Q652	J - 11
D922	H - 14	Q671	I - 7
D923	H - 14	Q901	D - 6
D924	H - 15	Q911	B - 4
D925	H - 15	Q912	I - 5
D926	H - 15	Q913	J - 4
D927	I - 15	Q914	J - 5
D928	I - 14	Q921	I - 14
D932	J - 14	Q922	J - 17
D933	J - 14	Q923	J - 17
D934	J - 15		

Note:

- ○—— : parts extracted from the component side.
- ▒▒▒ : Pattern on the side which is seen.



(New Type)

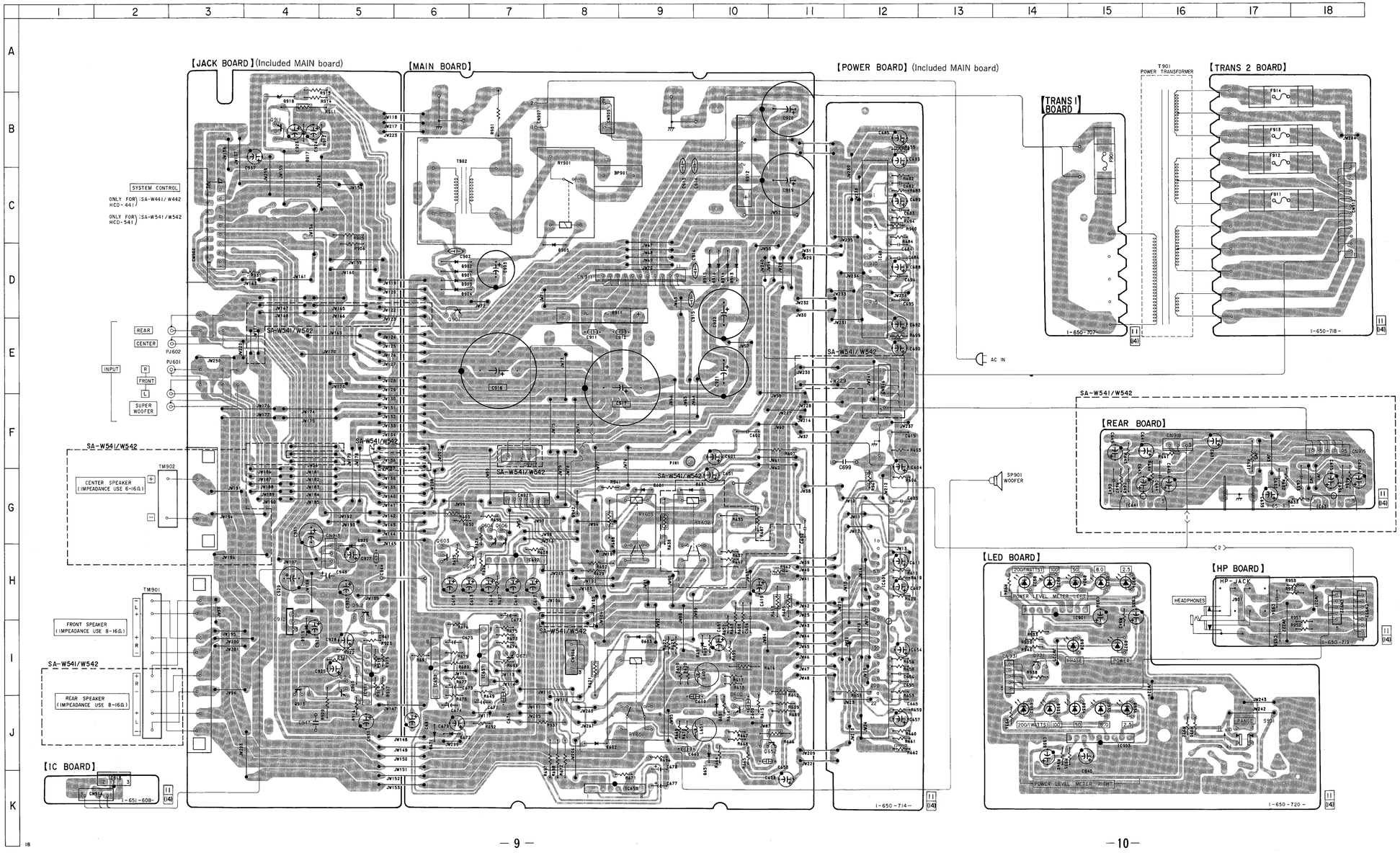
● See page 4 for Circuit Boards Location and Semiconductor Lead Layouts.

• **Semiconductor location**

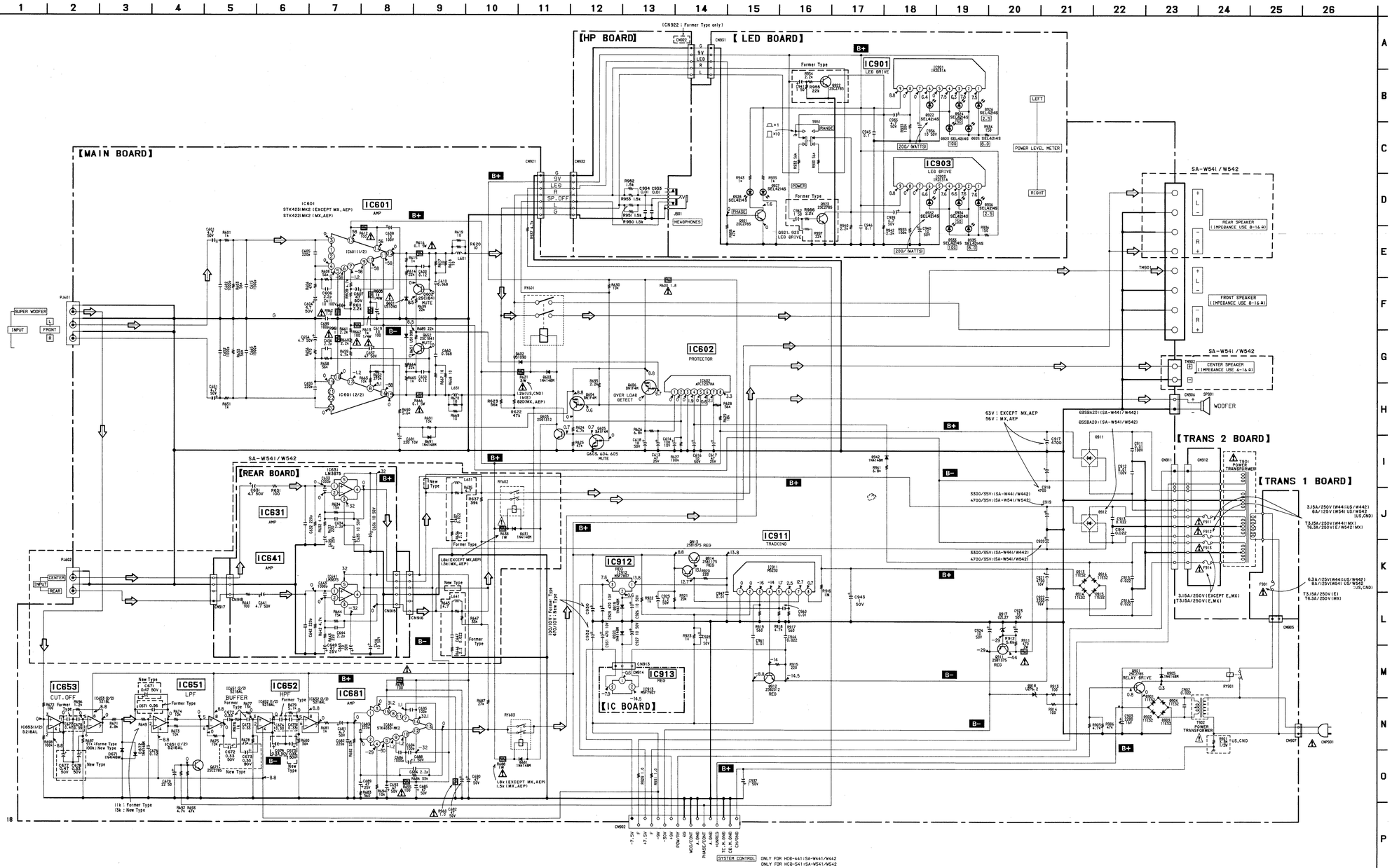
Ref. No.	Location	Ref. No.	Location
D601	J - 10	D934	J - 15
D602	J - 8	D935	J - 15
D603	I - 9	D936	J - 15
D631	G - 9	D942	G - 8
D651	J - 10		
D671	J - 6	IC601	H - 12
D672	J - 6	IC602	H - 7
D681	G - 9	IC631	G - 18
D691	I - 10	IC641	G - 15
D901	D - 6	IC651	H - 7
D902	D - 6	IC652	I - 6
D903	D - 6	IC653	K - 9
D904	D - 6	IC681	C - 12
D905	D - 8	IC901	H - 14
D911	E - 8	IC903	J - 15
D912	C - 10	IC911	H - 5
D913	D - 10	IC912	I - 4
D914	D - 10	IC913	K - 1
D915	D - 10		
D916	D - 10	Q602	J - 10
D917	B - 4	Q603	H - 6
D918	B - 4	Q604	G - 7
D919	I - 4	Q605	H - 6
D920	H - 5	Q606	G - 7
D922	H - 14	Q652	J - 11
D923	H - 14	Q671	I - 7
D924	H - 15	Q901	D - 6
D925	H - 15	Q911	B - 4
D926	H - 15	Q912	I - 5
D927	I - 15	Q913	J - 4
D928	I - 14	Q914	J - 5
D932	J - 14	Q921	I - 14
D933	J - 14		

Note:

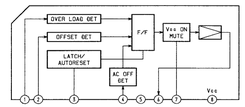
- ○—— : parts extracted from the component side.
- ▒▒▒ : Pattern on the side which is seen.



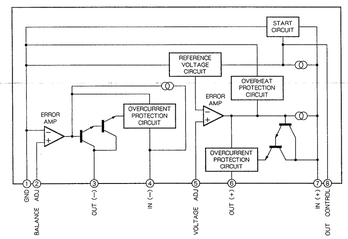
2-4. SCHEMATIC DIAGRAM



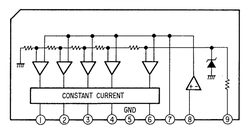
IC602 μPC1237HA



IC911 M5230



IC901, 903 IR2E31A



Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- △ : internal component.
- ▭ : nonflammable resistor.

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- B+ : B+ Line
- B− : B− Line
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path. ⇨
- Abbreviations
  CND : Canadian
  MX : Mexican

SECTION 3
EXPLODED VIEW

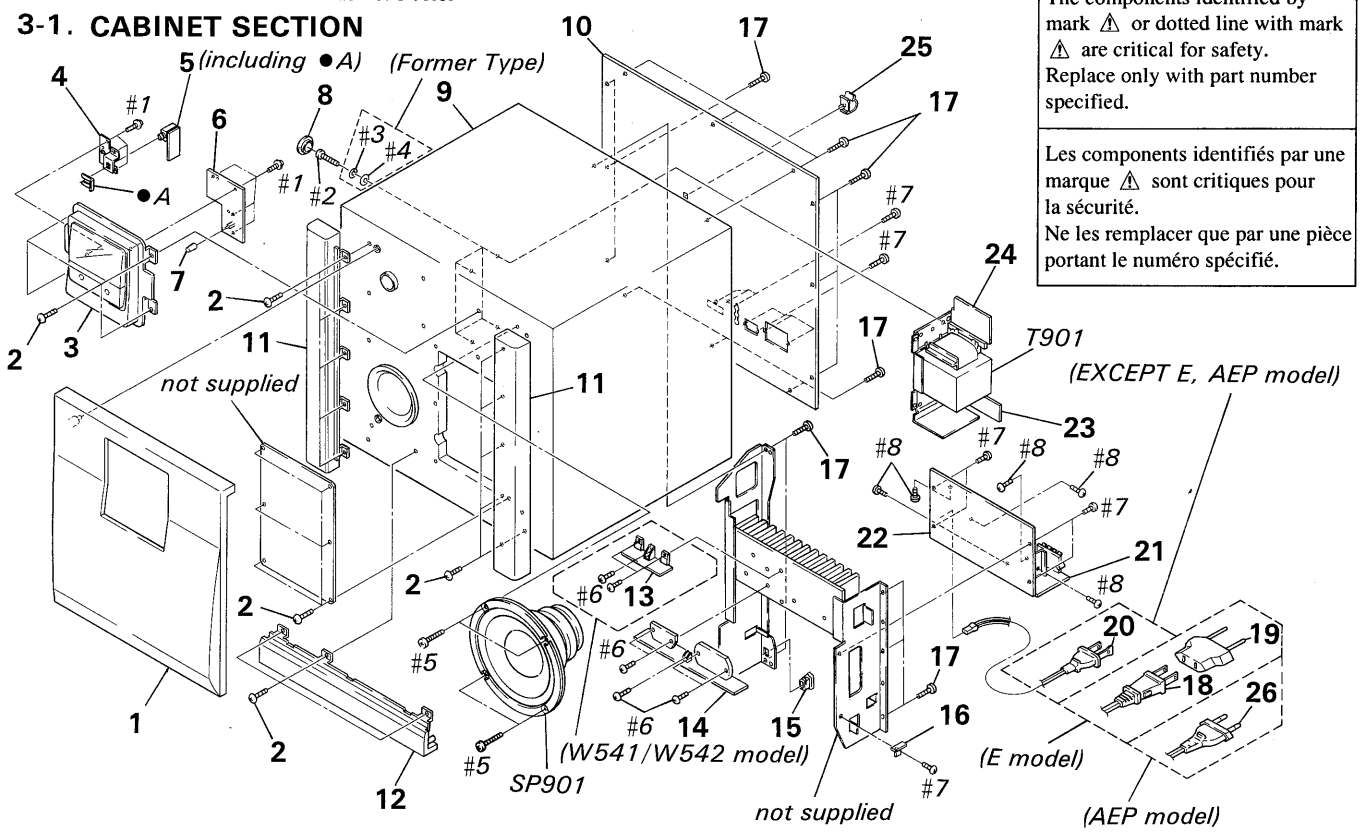
NOTE:

- –XX, –X mean standardized parts, so they may have some differences from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE)...(RED)
  ↑ ↑
  Parts color Cabinet's color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (#mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviations
  CND : Canadian
  MX : Mexican

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les components identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

3-1. CABINET SECTION



Ref. No.	Part No.	Description	Remark
1	X-4944-240-1	FRAME ASSY, GRILLE	
2	4-929-125-11	SCREW (M4X16), TAPPING	
3	X-4944-239-1	PANEL (A) ASSY, TOP (W441)	
3	X-4944-389-1	PANEL (A) ASSY, TOP (W541)	
3	X-4944-743-1	PANEL (A) ASSY, TOP (W542)	
3	X-4944-744-1	PANEL (A) ASSY, TOP (W442)	
* 4	4-963-521-01	BRACKET (H.P)	
* 5	1-650-719-11	HP BOARD	
* 6	1-650-720-11	LED BOARD	
7	4-964-705-01	BUTTON (RANGE)	
8	4-965-090-02	CAP (W441/W541)	
8	4-965-090-12	CAP (W442/W542)	
9	A-4353-727-A	CABINET ASSY, SPEAKER (W442/W542)	
9	A-4353-731-A	CABINET ASSY, SPEAKER (W441/W541)	
* 10	4-963-518-01	BOARD, BACK (W541:US)	
* 10	4-963-518-21	BOARD, BACK (E)	
* 10	4-963-518-31	BOARD, BACK (W441:US)	
* 10	4-963-518-51	BOARD, BACK (W542:US)	
* 10	4-963-518-61	BOARD, BACK (W442:US)	
* 10	4-963-518-71	BOARD, BACK (W442:CND)	
* 10	4-963-518-81	BOARD, BACK (W542:CND)	
* 10	4-966-376-01	BOARD, BACK (W542:MX)	
* 10	4-966-376-11	BOARD, BACK (W441:MX)	
* 10	4-966-376-21	BOARD, BACK (W542:AEP)	
11	4-962-846-01	PANEL, SIDE	
12	4-962-848-01	PANEL, BOTTOM (W441/W541)	
12	4-962-848-11	PANEL, BOTTOM (W442/W542)	

Ref. No.	Part No.	Description	Remark
* 13	1-651-818-11	REAR BOARD (W541/W542)	
* 14	1-650-715-11	POEWR BOARD	
* 15	3-703-244-00	BUSHING (2104), CORD (EXCEPT E)	
15	3-703-571-11	BUSHING (S) (4516), CORD (E)	
* 16	1-651-608-11	IC BOARD	
17	4-874-614-21	SCREW (4) (3.5X14), TAPPING	
⚠18	1-558-943-41	CORD, POWER (E)	
⚠19	1-569-007-11	ADAPTER, CONVERSION 2P (E)	
⚠20	1-575-042-21	CORD, POWER (EXCEPT E, AEP)	
* 21	1-650-716-11	JACK BOARD	
* 22	A-4369-766-A	MAIN BOARD, COMPLETE (W541:US/W542:US, CND)	
* 22	A-4369-769-A	MAIN BOARD, COMPLETE (E)	
* 22	A-4369-770-A	MAIN BOARD, COMPLETE (W441:US/W442)	
* 22	A-4371-213-A	MAIN BOARD, COMPLETE (W542:MX)	
* 22	A-4371-214-A	MAIN BOARD, COMPLETE (W441:MX)	
* 22	A-4371-602-A	MAIN BOARD, COMPLETE (W542:AEP)	
* 23	1-650-717-11	TRANS 1 BOARD	
* 24	1-650-718-11	TRANS 2 BOARD	
* 25	4-949-235-01	HOOK	
⚠26	1-575-651-21	CORD, POWER (AEP)	
SP901	1-504-515-11	SPEAKER (20CM)	
⚠T901	1-423-946-11	TRANSFORMER, POWER (W441:US/W442)	
⚠T901	1-423-947-11	TRANSFORMER, POWER (W541:US/W542:US, CND)	
⚠T901	1-423-955-11	TRANSFORMER, POWER (E)	
⚠T901	1-426-915-11	TRANSFORMER, POWER (W441:MX)	
⚠T901	1-426-916-11	TRANSFORMER, POWER (W542:MX)	
⚠T901	1-426-934-11	TRANSFORMER, POWER (W542:AEP)	

SECTION 4
ELECTRICAL PARTS LIST

HP IC LED

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : μ, for example:
  uA··· : μA···, uPA··· : μPA···, uPB··· : μPB···, uPC··· : μPC···, uPD··· : μPD···
- CAPACITORS
  uF : μF
- COILS
  uH : μH
- Abbreviations
  CND : Canadian
  MX : Mexican

When indicating parts by reference number, please include the board.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les components identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
*	1-650-719-11	HP BOARD	
		********	
		< CAPACITOR >	
C933	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C934	1-161-379-00	CERAMIC 0.01uF 20% 25V	
		< CONNECTOR >	
* CN922	1-568-954-11	PIN, CONNECTOR 5P	(Former Type)
* CN932	1-568-934-11	PIN, CONNECTOR 7P	
		< JACK >	
J901	1-569-113-11	JACK, LARGE TYPE (HEADPHONES)	
		< RESISTOR >	
R939	1-249-417-11	CARBON 1K 5% 1/4W	
R943	1-249-417-11	CARBON 1K 5% 1/4W	
R950	1-249-419-11	CARBON 1.5K 5% 1/4W	
R951	1-249-419-11	CARBON 1.5K 5% 1/4W	
R952	1-249-419-11	CARBON 1.5K 5% 1/4W	
R953	1-249-419-11	CARBON 1.5K 5% 1/4W	
**********			
*	1-651-608-11	IC BOARD	
		********	
		< IC >	
IC913	8-759-604-95	IC M5F79M07L	
**********			
*	1-650-720-11	LED BOARD	
		*********	
		< CAPACITOR >	
C935	1-124-927-11	ELECT 4.7uF 20% 100V	
C936	1-124-907-11	ELECT 10uF 20% 50V	
C939	1-124-927-11	ELECT 4.7uF 20% 100V	
C940	1-124-907-11	ELECT 10uF 20% 50V	
C941	1-124-903-11	ELECT 1uF 20% 50V	(Former Type)
C942	1-124-903-11	ELECT 1uF 20% 50V	(Former Type)
C945	1-164-159-11	CERAMIC 0.1uF 50V	
C946	1-164-159-11	CERAMIC 0.1uF 50V	
		< DIODE >	
D922	8-719-049-13	LED SEL4214S-TP6	(200/(WATTS))
D923	8-719-049-13	LED SEL4214S-TP6	(100)
D924	8-719-049-13	LED SEL4214S-TP6	(50)
D925	8-719-049-13	LED SEL4214S-TP6	(8.5)
D926	8-719-049-13	LED SEL4214S-TP6	(2.5)
D927	8-719-049-13	LED SEL4214S-TP6	(POWER)
D928	8-719-049-13	LED SEL4214S-TP6	(PHASE)
D932	8-719-049-13	LED SEL4214S-TP6	(200/(WATTS))
D933	8-719-049-13	LED SEL4214S-TP6	(100)
D934	8-719-049-13	LED SEL4214S-TP6	(50)
D935	8-719-049-13	LED SEL4214S-TP6	(8.5)
D936	8-719-049-13	LED SEL4214S-TP6	(2.5)
		< IC >	
IC901	8-759-917-42	IC IR2E31A	
IC903	8-759-917-42	IC IR2E31A	
		< TRANSISTOR >	
Q921	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q922	8-729-119-79	TRANSISTOR 2SC2785-FEK	(Former Type)
Q923	8-729-119-79	TRANSISTOR 2SC2785-FEK	(Former Type)
		< RESISTOR >	
R930	1-249-438-11	CARBON 56K 5% 1/4W	
R932	1-249-438-11	CARBON 56K 5% 1/4W	
R933	1-249-441-11	CARBON 100K 5% 1/4W	
R934	1-247-811-31	CARBON 150 5% 1/4W	
R935	1-249-441-11	CARBON 100K 5% 1/4W	
R936	1-247-811-31	CARBON 150 5% 1/4W	
R938	1-249-437-11	CARBON 47K 5% 1/4W	
R940	1-249-421-11	CARBON 2.2K 5% 1/4W	
R942	1-249-421-11	CARBON 2.2K 5% 1/4W	
R954	1-249-421-11	CARBON 2.2K 5% 1/4W	(Former Type)
R955	1-249-433-11	CARBON 22K 5% 1/4W	(Former Type)

Ref. No.	Part No.	Description			Remark
R956	1-249-421-11	CARBON	2.2K	5% 1/4W	(Former Type)
R957	1-249-433-11	CARBON	22K	5% 1/4W	(Former Type)
		< SWITCH >			
S951	1-572-714-11	SWITCH, PUSH (RANGE)			
**********					
*	A-4369-766-A	MAIN BOARD, COMPLETE			(W541:US/W542:US, CND)
*	A-4369-769-A	MAIN BOARD, COMPLETE			(W541:E)
*	A-4369-770-A	MAIN BOARD, COMPLETE			(W441:US/W442)
*	A-4371-213-A	MAIN BOARD, COMPLETE			(W542:MX)
*	A-4371-214-A	MAIN BOARD, COMPLETE			(W441:MX)
*	A-4371-602-A	MAIN BOARD, COMPLETE			(W542:AEP)
		**********			
*	1-533-293-11	FUSE HOLDER			
*	4-942-204-01	PLATE, GROUND			
	7-685-646-79	SCREW +BVTP	3X8	TYPE2 N-S	
		< CAPACITOR >			
C600	1-136-166-00	FILM	0.12uF	5%	50V
C601	1-124-927-11	ELECT	4.7uF	20%	100V
C602	1-162-294-31	CERAMIC	0.001uF	10%	50V
C604	1-124-927-11	ELECT	4.7uF	20%	100V
C605	1-162-286-31	CERAMIC	220PF	10%	50V
C606	1-162-191-31	CERAMIC	2.2PF	10%	50V
C607	1-124-910-11	ELECT	47uF	20%	50V
C608	1-124-667-11	ELECT	10uF	20%	100V
C610	1-130-493-00	MYLAR	0.068uF	5%	50V
C611	1-124-667-11	ELECT	10uF	20%	100V
C613	1-124-477-11	ELECT	47uF	20%	25V
C614	1-124-443-00	ELECT	100uF	20%	10V
C615	1-161-374-11	CERAMIC	0.0015uF	20%	50V
C616	1-124-907-11	ELECT	10uF	20%	50V
C617	1-124-477-11	ELECT	47uF	20%	25V
C618	1-124-907-11	ELECT	10uF	20%	50V
C619	1-124-667-11	ELECT	10uF	20%	100V
C637	1-130-487-00	MYLAR	0.022uF	5%	50V (W541/W542) (Former Type)
C647	1-130-487-00	MYLAR	0.022uF	5%	50V (W541/W542) (Former Type)
C650	1-136-166-00	FILM	0.12uF	5%	50V
C651	1-124-927-11	ELECT	4.7uF	20%	100V
C652	1-162-294-31	CERAMIC	0.001uF	10%	50V
C654	1-124-927-11	ELECT	4.7uF	20%	100V
C655	1-162-286-31	CERAMIC	220PF	10%	50V
C656	1-162-191-31	CERAMIC	2.2PF	10%	50V
C657	1-124-910-11	ELECT	47uF	20%	50V
C660	1-130-493-00	MYLAR	0.068uF	5%	50V
C665	1-161-374-11	CERAMIC	0.0015uF	20%	50V

Ref. No.	Part No.	Description			Remark
C670	1-124-916-11	ELECT	22uF	20%	63V
C671	1-136-174-00	FILM	0.56uF	5%	50V(Former Type)
C671	1-124-902-00	ELECT	0.47uF	20%	50V(New Type)
C672	1-136-171-00	FILM	0.33uF	5%	50V(Former Type)
C672	1-124-252-00	ELECT	0.33uF	20%	50V(New Type)
C673	1-136-171-00	FILM	0.33uF	5%	50V(Former Type)
C673	1-124-252-00	ELECT	0.33uF	20%	50V(New Type)
C674	1-136-171-00	FILM	0.33uF	5%	50V(Former Type)
C674	1-124-252-00	ELECT	0.33uF	20%	50V(New Type)
C675	1-136-171-00	FILM	0.33uF	5%	50V(Former Type)
C675	1-124-252-00	ELECT	0.33uF	20%	50V(New Type)
C676	1-136-166-00	FILM	0.12uF	5%	50V
C677	1-136-173-00	FILM	0.47uF	5%	50V(Former Type)
C677	1-124-902-00	ELECT	0.47uF	20%	50V(New Type)
C678	1-136-172-00	FILM	0.39uF	5%	50V(Former Type)
C678	1-124-252-00	ELECT	0.33uF	20%	50V(New Type)
C681	1-124-927-11	ELECT	4.7uF	20%	100V
C682	1-162-286-31	CERAMIC	220PF	10%	50V
C683	1-162-286-31	CERAMIC	220PF	10%	50V
C684	1-162-191-31	CERAMIC	2.2PF	10%	50V
C685	1-124-910-11	ELECT	47uF	20%	50V
C686	1-162-294-31	CERAMIC	0.001uF	10%	50V
C688	1-124-903-11	ELECT	1uF	20%	50V
C689	1-124-477-11	ELECT	47uF	20%	25V
C690	1-124-910-11	ELECT	47uF	20%	50V
C691	1-126-176-11	ELECT	220uF	20%	10V
C692	1-124-910-11	ELECT	47uF	20%	50V
C693	1-124-910-11	ELECT	47uF	20%	50V
C694	1-162-282-31	CERAMIC	100PF	10%	50V
C695	1-162-282-31	CERAMIC	100PF	10%	50V
C699	1-162-282-31	CERAMIC	100PF	10%	50V
C902	1-164-097-11	CERAMIC	0.022uF		50V
C903	1-124-556-11	ELECT	2200uF	20%	16V
C911	1-106-367-00	MYLAR	0.01uF	5%	200V
C912	1-106-367-00	MYLAR	0.01uF	5%	200V
C913	1-164-097-11	CERAMIC	0.022uF		50V
C914	1-164-097-11	CERAMIC	0.022uF		50V
C915	1-164-097-11	CERAMIC	0.022uF		50V
C916	1-164-097-11	CERAMIC	0.022uF		50V
C917	1-128-493-11	ELECT	4700uF	20%	63V(US, CND, E)
C917	1-126-258-11	ELECT	4700uF	20%	56V(MX, AEP)
C918	1-128-493-11	ELECT	4700uF	20%	63V(US, CND, E)
C918	1-126-258-11	ELECT	4700uF	20%	56V(MX, AEP)
C919	1-126-954-11	ELECT	3300uF	20%	35V(W441/W442)
C919	1-126-955-11	ELECT	4700uF	20%	35V(W541/W542)
C920	1-126-954-11	ELECT	3300uF	20%	35V(W441/W442)
C920	1-126-955-11	ELECT	4700uF	20%	35V(W541/W542)
C921	1-124-898-11	ELECT	4700uF	20%	16V

MAIN

Ref. No.	Part No.	Description			Remark
C922	1-124-556-11	ELECT	2200uF	20%	16V
C923	1-124-907-11	ELECT	10uF	20%	50V
C924	1-124-907-11	ELECT	10uF	20%	50V
C925	1-124-925-11	ELECT	2.2uF	20%	100V
C926	1-124-907-11	ELECT	10uF	20%	50V
C927	1-124-907-11	ELECT	10uF	20%	50V
C928	1-124-903-11	ELECT	1uF	20%	50V
C929	1-124-472-11	ELECT	470uF	20%	10V
C930	1-124-443-00	ELECT	100uF	20%	10V(Former Type)
C930	1-124-472-11	ELECT	470uF	20%	10V(New Type)
C931	1-124-472-11	ELECT	470uF	20%	10V
C932	1-124-443-00	ELECT	100uF	20%	10V(Former Type)
C932	1-124-472-11	ELECT	470uF	20%	10V(New Type)
C937	1-124-903-11	ELECT	1uF	20%	50V
C943	1-124-903-11	ELECT	1uF	20%	50V
C944	1-130-487-00	MYLAR	0.022uF	5%	50V
C947	1-161-379-00	CERAMIC	0.01uF	20%	25V
C960	1-161-379-00	CERAMIC	0.01uF	20%	25V
C961	1-161-379-00	CERAMIC	0.01uF	20%	25V
		< CONNECTOR >			
* CN902	1-569-624-11	SOCKET, CONNECTOR 17P			
* CN905	1-580-230-21	PIN, CONNECTOR (PC BOARD) 3P			
CN906	1-580-230-11	PIN, CONNECTOR (PC BOARD) 3P			
CN907	1-580-230-11	PIN, CONNECTOR (PC BOARD) 3P			
* CN911	1-564-514-11	PLUG, CONNECTOR 11P			
CN913	1-564-506-11	PLUG, CONNECTOR 3P			
* CN921	1-568-934-11	PIN, CONNECTOR 7P			
		< DIODE >			
D601	8-719-815-85	DIODE	1S1585		
D602	8-719-815-85	DIODE	1S1585		
D603	8-719-987-63	DIODE	1N4148M		
D631	8-719-987-63	DIODE	1N4148M	(W541/W542)	
D651	8-719-815-85	DIODE	1S1585		
D671	8-719-987-63	DIODE	1N4148M		
D672	8-719-987-63	DIODE	1N4148M		
D681	8-719-987-63	DIODE	1N4148M		
D691	8-719-987-63	DIODE	1N4148M		
D901	8-719-200-82	DIODE	11ES2		
D902	8-719-200-82	DIODE	11ES2		
D903	8-719-200-82	DIODE	11ES2		
D904	8-719-200-82	DIODE	11ES2		
D905	8-719-987-63	DIODE	1N4148M		
D911	8-719-500-60	DIODE	D5SBA20		
D912	8-719-028-23	DIODE	D3SBA20-4101	(W441/W442)	
D912	8-719-500-60	DIODE	D5SBA20	(W541/W542)	
D913	8-719-200-82	DIODE	11ES2		
D914	8-719-200-82	DIODE	11ES2		

Ref. No.	Part No.	Description		Remark
D915	8-719-200-82	DIODE	11ES2	
D916	8-719-200-82	DIODE	11ES2	
D917	8-719-002-48	DIODE	UZL-27H	
D918	8-719-014-74	DIODE	UZP-6.2B	
D919	8-719-987-63	DIODE	1N4148M	
D920	8-719-987-63	DIODE	1N4148M	
D942	8-719-987-63	DIODE	1N4148M	
		< IC >		
IC601	8-749-922-65	IC	STK4221MK2 (MX, AEP)	
IC601	8-749-921-68	IC	STK4231MK2 (US, CND, E)	
IC602	8-759-111-68	IC	UPC1237HA	
IC651	8-759-634-50	IC	M5218AL	
IC652	8-759-634-50	IC	M5218AL	
IC653	8-759-634-50	IC	M5218AL	
IC681	8-749-940-30	IC	STK4030II	
IC911	8-759-602-66	IC	M5230L-A	
IC912	8-759-605-00	IC	M5F78M07L	
		< COIL >		
L601	1-420-872-00	COIL, AIR-CORE		
L631	1-420-872-00	COIL, AIR-CORE (W541/W542)		(Former Type)
L641	1-420-872-00	COIL, AIR-CORE (W541/W542)		(Former Type)
L651	1-420-872-00	COIL, AIR-CORE		
		< JACK >		
PJ601	1-764-406-11	JACK BLOCK, PIN 3P (INPUT)		
PJ602	1-764-405-11	JACK BLOCK, PIN 2P (INPUT) (W541/W542)		
		< TRANSISTOR >		
Q602	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA	
Q603	8-729-143-49	TRANSISTOR	2SD1312-LKU-TP	
Q604	8-729-900-63	TRANSISTOR	DTA124ES	
Q605	8-729-900-36	TRANSISTOR	DTC124ES	
Q606	8-729-900-63	TRANSISTOR	DTA124ES	
Q652	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA	
Q671	8-729-119-79	TRANSISTOR	2SC2785-FEK	
Q901	8-729-119-79	TRANSISTOR	2SC2785-FEK	
Q911	8-729-141-83	TRANSISTOR	2SB1094-LK	
Q912	8-729-209-15	TRANSISTOR	2SD2012	
Q913	8-729-141-83	TRANSISTOR	2SB1094-LK	
Q914	8-729-119-77	TRANSISTOR	2SA1175-FEK	
		< RESISTOR >		
⚠R600	1-249-450-11	CARBON	1.8 5% 1/4W F	
R601	1-249-417-11	CARBON	1K 5% 1/4W	
R603	1-249-438-11	CARBON	56K 5% 1/4W	
⚠R605	1-247-713-11	CARBON	1K 5% 1/4W F	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les components identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description				Remark
R606	1-249-413-11	CARBON	470	5%	1/4W	
R608	1-249-438-11	CARBON	56K	5%	1/4W	
R609	1-249-425-11	CARBON	4.7K	5%	1/4W	
R610	1-249-421-11	CARBON	2.2K	5%	1/4W	
R611	1-249-421-11	CARBON	2.2K	5%	1/4W	
⚠R612	1-249-405-11	CARBON	100	5%	1/4W F	
⚠R613	1-247-713-11	CARBON	1K	5%	1/4W F	
R614	1-249-433-11	CARBON	22K	5%	1/4W	
R615	1-249-417-11	CARBON	1K	5%	1/4W	
⚠R616	1-214-789-00	RES, METAL PLATE	0.1			
R617	1-249-393-11	CARBON	10	5%	1/4W	
R618	1-249-393-11	CARBON	10	5%	1/4W	
R619	1-249-393-11	CARBON	10	5%	1/4W	
R620	1-249-393-11	CARBON	10	5%	1/4W	
⚠R621	1-215-917-11	METAL OXIDE	1K	5%	3W F	(E)
⚠R621	1-216-480-11	METAL OXIDE	820	5%	3W F	(MX, AEP)
⚠R621	1-216-481-11	METAL OXIDE	1.2K	5%	3W F	(US, CND)
R622	1-249-437-11	CARBON	47K	5%	1/4W	
R623	1-249-438-11	CARBON	56K	5%	1/4W	
R624	1-249-425-11	CARBON	4.7K	5%	1/4W	
R625	1-249-437-11	CARBON	47K	5%	1/4W	
R626	1-249-427-11	CARBON	6.8K	5%	1/4W	
R627	1-249-441-11	CARBON	100K	5%	1/4W	
R628	1-249-438-11	CARBON	56K	5%	1/4W	
R629	1-249-432-11	CARBON	18K	5%	1/4W	
R630	1-249-429-11	CARBON	10K	5%	1/4W	
R635	1-249-389-11	CARBON	4.7	5%	1/4W	(W541/W542) (Former Type)
R636	1-249-385-11	CARBON	2.2	5%	1/6W	(W541/W542) (Former Type)
R637	1-249-436-11	CARBON	39K	5%	1/4W	(W541/W542)
⚠R638	1-216-434-11	METAL OXIDE	1.8K	5%	1W F	(W541/W542:US, CND)
⚠R638	1-215-870-11	METAL OXIDE	1.5K	5%	1W F	(W542:MX, AEP)
R639	1-249-433-11	CARBON	22K	5%	1/4W	
R645	1-249-389-11	CARBON	4.7	5%	1/4W	(W541/W542)
R646	1-249-385-11	CARBON	2.2	5%	1/6W	(W541/W542)
R647	1-249-435-11	CARBON	33K	5%	1/4W	(W541/W542)
R649	1-247-856-00	CARBON	11K	5%	1/4W	(Former Type)
R649	1-247-858-11	CARBON	13K	5%	1/4W	(New Type)
R651	1-249-417-11	CARBON	1K	5%	1/4W	
R652	1-247-889-00	CARBON	270K	5%	1/4W	
R653	1-249-438-11	CARBON	56K	5%	1/4W	
⚠R655	1-249-405-11	CARBON	100	5%	1/4W F	
R656	1-249-413-11	CARBON	470	5%	1/4W	
R658	1-249-438-11	CARBON	56K	5%	1/4W	
R659	1-249-425-11	CARBON	4.7K	5%	1/4W	
R660	1-249-421-11	CARBON	2.2K	5%	1/4W	
R661	1-249-421-11	CARBON	2.2K	5%	1/4W	

Ref. No.	Part No.	Description				Remark
⚠R662	1-249-405-11	CARBON	100	5%	1/4W F	
R663	1-249-429-11	CARBON	10K	5%	1/4W	
R664	1-249-433-11	CARBON	22K	5%	1/4W	
R665	1-249-417-11	CARBON	1K	5%	1/4W	
⚠R666	1-214-789-00	RES, METAL PLATE	0.1			
R667	1-249-393-11	CARBON	10	5%	1/4W	
R668	1-249-393-11	CARBON	10	5%	1/4W	
R669	1-249-393-11	CARBON	10	5%	1/4W	
R670	1-249-393-11	CARBON	10	5%	1/4W	
R671	1-249-427-11	CARBON	6.8K	5%	1/4W	
R672	1-247-807-31	CARBON	100	5%	1/4W	
R673	1-249-429-11	CARBON	10K	5%	1/4W	
R674	1-249-429-11	CARBON	10K	5%	1/4W	
R675	1-249-429-11	CARBON	10K	5%	1/4W	
R676	1-249-417-11	CARBON	1K	5%	1/4W	
R677	1-247-858-11	CARBON	13K	5%	1/4W	
R678	1-249-431-11	CARBON	15K	5%	1/4W	
R679	1-247-848-11	CARBON	5.1K	5%	1/4W	
R680	1-247-868-11	CARBON	36K	5%	1/4W	
R681	1-249-417-11	CARBON	1K	5%	1/4W	
R682	1-249-435-11	CARBON	33K	5%	1/4W	
R683	1-249-414-11	CARBON	560	5%	1/4W	
R684	1-249-435-11	CARBON	33K	5%	1/4W	
R687	1-249-434-11	CARBON	27K	5%	1/4W	
⚠R688	1-216-434-11	METAL OXIDE	1.8K	5%	1W F	(US, CND, E)
⚠R688	1-215-870-11	METAL OXIDE	1.5K	5%	1W F	(MX, AEP)
R689	1-249-433-11	CARBON	22K	5%	1/4W	
R690	1-249-426-11	CARBON	5.6K	5%	1/4W	
R691	1-249-429-11	CARBON	10K	5%	1/4W	
R692	1-249-425-11	CARBON	4.7K	5%	1/4W	
R693	1-249-437-11	CARBON	47K	5%	1/4W	
R694	1-249-429-11	CARBON	10K	5%	1/4W	
R695	1-249-421-11	CARBON	2.2K	5%	1/4W	
R696	1-249-418-11	CARBON	1.2K	5%	1/4W	
R697	1-247-878-00	CARBON	91K	5%	1/4W	(Former Type)
R697	1-249-441-11	CARBON	100K	5%	1/4W	(New Type)
R698	1-249-441-11	CARBON	100K	5%	1/4W	
⚠R699	1-249-405-11	CARBON	100	5%	1/4W F	
⚠R901	1-202-725-00	SOLID	3.3M	10%	1/2W	(US, CND)
R905	1-249-425-11	CARBON	4.7K	5%	1/4W	
R906	1-249-437-11	CARBON	47K	5%	1/4W	
⚠R911	1-215-890-11	METAL OXIDE	470	5%	2W F	
R912	1-249-426-11	CARBON	5.6K	5%	1/4W	
R913	1-247-807-31	CARBON	100	5%	1/4W	
R914	1-247-807-31	CARBON	100	5%	1/4W	
R915	1-249-409-11	CARBON	220	5%	1/4W	
R916	1-247-903-00	CARBON	1M	5%	1/4W	
R917	1-249-414-11	CARBON	560	5%	1/4W	
R918	1-249-425-11	CARBON	4.7K	5%	1/4W	

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MAIN | REAR | TRANS 1 | TRANS 2

Ref. No.	Part No.	Description				Remark
R919	1-249-414-11	CARBON	560	5%	1/4W	
R920	1-249-409-11	CARBON	220	5%	1/4W	
R921	1-247-862-11	RES, CARBON	20K	5%	1/4W	
R922	1-249-417-11	CARBON	1K	5%	1/4W	
R923	1-249-417-11	CARBON	1K	5%	1/4W	
R929	1-249-381-11	CARBON	1	5%	1/4W	
R931	1-249-381-11	CARBON	1	5%	1/4W	
R937	1-249-425-11	CARBON	4.7K	5%	1/4W	
R941	1-249-427-11	CARBON	6.8K	5%	1/4W	
⚠R960	1-249-381-11	CARBON	1	5%	1/4W F	
⚠R961	1-249-381-11	CARBON	1	5%	1/4W F	
⚠R962	1-249-381-11	CARBON	1	5%	1/4W F	
		< RELAY >				
RY601	1-515-741-11	RELAY				
RY602	1-515-920-11	RELAY (24V)				(W541/W542)
RY603	1-515-920-11	RELAY (24V)				
RY901	1-515-701-11	RELAY (US, CND, MX)				
RY901	1-515-701-21	RELAY (E, AEP)				
		< TRANSFORMER >				
⚠T902	1-449-993-21	TRANSFORMER, POWER (US, CND, MX)				
⚠T902	1-450-358-11	TRANSFORMER, POWER (E, AEP)				
		< TERMINAL >				
TM901	1-537-238-11	TERMINAL BOARD (FRONT SPEAKER)				(W441/W442)
TM901	1-537-376-11	TERMINAL BOARD (FRONT/REAR SPEAKER)				(W541/W542)
TM902	1-536-707-21	TERMINAL BOARD, PUSH 2P (CENTER SPEAKER)				(W541/W542)
**********						
*	1-651-818-11	REAR BOARD				(W541/W542)
		**********				
		< CAPACITOR >				
C631	1-124-927-11	ELECT	4.7uF	20%	100V	
C632	1-162-286-31	CERAMIC	220PF	10%	50V	
C633	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C634	1-162-191-31	CERAMIC	2.2PF	10%	50V	
C635	1-124-907-11	ELECT	10uF	20%	50V	
C636	1-124-907-11	ELECT	10uF	20%	50V	
C639	1-124-477-11	ELECT	47uF	20%	25V	
C641	1-124-927-11	ELECT	4.7uF	20%	100V	
C642	1-162-286-31	CERAMIC	220PF	10%	50V	
C643	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C644	1-162-191-31	CERAMIC	2.2PF	10%	50V	
C645	1-124-907-11	ELECT	10uF	20%	50V	

Ref. No.	Part No.	Description				Remark
C646	1-124-907-11	ELECT	10uF	20%	50V	
C649	1-124-477-11	ELECT	47uF	20%	25V	
		< CONNECTOR >				
* CN915	1-564-508-11	PLUG, CONNECTOR 5P				
CN918	1-564-506-11	PLUG, CONNECTOR 3P				
		< IC >				
IC631	8-759-085-89	IC LM3875-S				
IC641	8-759-085-89	IC LM3875-S				
		< RESISTOR >				
R631	1-247-807-31	CARBON	100	5%	1/4W	
R632	1-249-425-11	CARBON	4.7K	5%	1/4W	
R633	1-249-409-11	CARBON	220	5%	1/4W	
R634	1-249-431-11	CARBON	15K	5%	1/4W	
R641	1-247-807-31	CARBON	100	5%	1/4W	
R642	1-249-425-11	CARBON	4.7K	5%	1/4W	
R643	1-249-409-11	CARBON	220	5%	1/4W	
R644	1-249-431-11	CARBON	15K	5%	1/4W	
**********						
*	1-650-717-11	TRANS 1 BOARD				
		**********				
		< FUSE >				
⚠F901	1-532-237-00	FUSE, TIME-LAG (BET) (T3.15A/250V) (E, AEP)				
⚠F901	1-576-193-21	FUSE (T6.3A/250V) (W441:US/W442)				
⚠F901	1-532-749-11	FUSE, GLASS TUBE (8A/125V)				(W541:US/W542:US, CND)
⚠F901	1-532-506-51	FUSE, TIME-LAG (T6.3A/250V) (MX)				
**********						
*	1-650-718-11	TRANS 2 BOARD				
		**********				
		< FUSE >				
⚠F911	1-576-107-11	FUSE (3.15A/250V) (W441:US/W442)				
⚠F911	1-532-237-00	FUSE, TIME-LAG (BET) (T3.15A/250V) (W441:MX)				
⚠F911	1-532-506-51	FUSE, TIME-LAG (T6.3A/250V) (E, AEP/W542:MX)				
⚠F911	1-576-110-21	FUSE (6A/125V) (W541:US/W542:US, CND)				
⚠F912	1-576-107-11	FUSE (3.15A/250V) (W441:US/W442)				
⚠F912	1-532-237-00	FUSE, TIME-LAG (BET) (T3.15A/250V) (W441:MX)				
⚠F912	1-532-506-51	FUSE, TIME-LAG (T6.3A/250V) (E, AEP/W542:MX)				
⚠F912	1-576-110-21	FUSE (6A/125V) (W541:US/W542:US, CND)				
⚠F913	1-532-237-00	FUSE, TIME-LAG (T3.15A/250V) (EXCEPT US, CND)				
⚠F913	1-576-107-11	FUSE (3.15A/250V) (US, CND)				
⚠F914	1-532-237-00	FUSE, TIME-LAG (T3.15A/250V) (EXCEPT US CND)				
⚠F914	1-576-107-11	FUSE (3.15A/250V) (US, CND)				
**********						

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Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	
		**********	
⚠18	1-558-943-41	CORD, POWER (E)	
⚠19	1-569-007-11	ADAPTER, CONVERSION 2P (E)	
⚠20	1-575-042-21	CORD, POWER (EXCEPT E, AEP)	
⚠26	1-575-651-21	CORD, POWER (AEP)	
SP901	1-504-515-11	SPEAKER (20CM)	
⚠T901	1-423-946-11	TRANSFORMER, POWER (W441:US/W442)	
⚠T901	1-423-947-11	TRANSFORMER, POWER (W541:US/W542:US, CND)	
⚠T901	1-423-955-11	TRANSFORMER, POWER (E)	
⚠T901	1-426-915-11	TRANSFORMER, POWER (W441:MX)	
⚠T901	1-426-916-11	TRANSFORMER, POWER (W542:MX)	
⚠T901	1-426-934-11	TRANSFORMER, POWER (W542:AEP)	
**********			
		ACCESSORIES & PACKING MATERIALS	
		**********	
	3-758-223-11	MANUAL, INSTRUCTION (Spanish, English,) (MX)	
	3-758-223-21	MANUAL, INSTRUCTION (English,) (US)	
	3-758-223-31	MANUAL, INSTRUCTION (French, English,) (CND)	
	3-758-223-41	MANUAL, INSTRUCTION (Arabic, English) (E)	
	3-758-223-51	MANUAL, INSTRUCTION (English, French, Dutch)	(AEP)
	4-956-137-01	KNOB (HP VOL) (E)	
*	4-964-155-01	CUSHION (UPPER)	
*	4-964-156-01	CUSHION (LOWER)	
*	4-965-137-01	INDIVIDUAL CARTON (W541/W542:MX)	
*	4-966-104-01	INDIVIDUAL CARTON (W542:US, CND)	
*	4-966-105-01	INDIVIDUAL CARTON (W441)	
*	4-966-106-01	INDIVIDUAL CARTON (W442)	
	4-967-693-01	INDIVIDUAL CARTON (W542:AEP)	
**********			
		**********	
		HARDWARE LIST	
		**********	
#1	7-682-134-19	SCREW +PTPWH 2.6X8 (TYPE 2)	
#2	7-682-666-09	+PSW 4X20 (New Type)	
#2	7-682-568-09	SCREW +B 4X30 (FormerType)	
#3	7-623-212-22	SW5, TYPE2 (FormerType)	
#4	7-688-005-01	W5, SMALL (FormerType)	
#5	7-621-846-58	SCREW (4X20), TAPPING	
#6	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3	
#7	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
#8	7-685-646-77	SCREW +BVTP 3X8 TYPE2 N-S	

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9-959-324-12
(INCLUDING 9-959-324-91)

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